



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

23117 7590 02/17/2011
NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

EXAMINER

LAU, JONATHAN S

ART UNIT

PAPER NUMBER

1623

DATE MAILED: 02/17/2011

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,194	06/30/2005	Bertus Noordam	4662-45	8070

TITLE OF INVENTION: PRODUCTION OF 5-RIBONUCLEOTIDES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/17/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

**Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

23117 7590 02/17/2011
NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/541,194 06/30/2005

Bertus Noordam

4662-45

8070

TITLE OF INVENTION: PRODUCTION OF 5-RIBONUCLEOTIDES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/17/2011

EXAMINER	ART UNIT	CLASS-SUBCLASS
LAU, JONATHAN S	I623	536-I27000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).
☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB-112) attached;
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB-117; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list
(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, _____
(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.111. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
☐ Publication Fee (No small entity discount permitted)
☐ Advance Order - # of Copies _____

4b. Payment of Fee(s): (Please first reuply any previously paid issue fee shown above)

- ☐ A check is enclosed.
☐ Payment by credit card. Form PTO-2038 is attached.
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,194	06/30/2005	Bertus Noordam	4662-45	8070

23117 7590 02/17/2011
NIXON & VANDERHYE, PC
901 NORTH GLEBE ROAD, 11TH FLOOR
ARLINGTON, VA 22203

EXAMINER
LAU, JONATHAN S

ART UNIT	PAPER NUMBER
1623	

DATE MAILED: 02/17/2011

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 44 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 44 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability**Application No.**

10/541,194

Applicant(s)

NOORDAM ET AL.

Examiner

Jonathan S. Lau

Art Unit

1623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's Amendment and Remarks, filed 17 Nov 2010 and 3 Feb 2011.
2. ☒ The allowed claim(s) is/are 6,7,11-15 and 21-29.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date ____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____.

/Shaojia Anna Jiang/
Supervisory Patent Examiner, Art Unit 1623

DETAILED ACTION

This Office Action is responsive to Applicant's Amendment and Remarks, filed 17 Nov 2010, in which claims 6, 20, 25 and 30 are amended to change the scope and breadth of the claim, and Applicant's Supplemental Amendment and Remarks, filed 3 Feb 2011, in which claims 6 is amended to change the scope and breadth of the claim, claims 11-14 are amended to conform to amendments to claim 6, claims 11, 26 and 27 are amended to change dependency, claims 15, 21-24, 28 and 29 are amended to change grammar, and claims 8-10, 20 and 30 are canceled

The Supplemental Amendment and Remarks, filed 3 Feb 2011, will be entered because it is deemed to place the application in condition for allowance.

This application is the national stage entry of PCT/EP04/00658, filed 23 Jan 2004; and claims benefit of foreign priority document EPO 03075255.4, filed 27 Jan 2003. The foreign priority document is in English.

Claims 6, 7, 11-15 and 21-29 are pending in the current application and are allowed herein.

REASONS FOR ALLOWANCE

Rejections Withdrawn

Applicant's Amendment, filed 17 Nov 2010, and Applicant's Supplemental Amendment, filed 3 Feb 2011, with respect to Amended Claims 6, 8-11, 13, 24 and 26-29 rejected under 35 U.S.C. 103(a) as being unpatentable over Halasz et al. (Use of Yeast Biomass in Food Production, 1991, CRC Press, p115-127 and 294-295, of record) in view of Tanekawa et al. (US Patent 4,303,680, issued 1 Dec 1981, of record) has been fully considered and is persuasive, as claims 8-10 are canceled and amended claim 6 requires separating the RNA with the cell walls from the <50kDa soluble cell material, converting the RNA to ribonucleotides in the presence of the cell walls and absence of the smaller soluble cell material, then separating the cell walls from the ribonucleotides; Applicant's remarks are persuasive that Halasz et al. or Tanekawa et al. teach separating the RNA from the cell walls and converting the RNA to ribonucleotides in the absence of both cell walls and the smaller soluble cell material or alternatively converting RNA to ribonucleotides in the presence of both the cell walls and the smaller soluble cell material and separating the ribonucleotides from both.

This rejection has been **withdrawn**.

Applicant's Amendment, filed 17 Nov 2010, and Applicant's Supplemental Amendment, filed 3 Feb 2011, with respect to Amended Claims 7 and 25 rejected under 35 U.S.C. 103(a) as being unpatentable over Halasz et al. (Use of Yeast Biomass in Food Production, 1991, CRC Press, p115-127 and 294-295, of record) in view of Tanekawa et al. (US Patent 4,303,680, issued 1 Dec 1981, of record) and further in view of Potman et al. (US Patent 5,288,509, issued 22 Feb 1994, of record) has been

fully considered and is persuasive, as amended claim 6 requires separating the RNA with the cell walls from the <50kDa soluble cell material, converting the RNA to ribonucleotides in the presence of the cell walls and absence of the smaller soluble cell material, then separating the cell walls from the ribonucleotides; Applicant's remarks are persuasive that Halasz et al. or Tanekawa et al. teach separating the RNA from the cell walls and converting the RNA to ribonucleotides in the absence of both cell walls and the smaller soluble cell material or alternatively converting RNA to ribonucleotides in the presence of both the cell walls and the smaller soluble cell material and separating the ribonucleotides from both, and the teaching of Potman et al. does not remedy this.

This rejection has been **withdrawn**.

Applicant's Amendment, filed 17 Nov 2010, and Applicant's Supplemental Amendment, filed 3 Feb 2011, with respect to Amended Claims 12 and 30 rejected under 35 U.S.C. 103(a) as being unpatentable over Halasz et al. (Use of Yeast Biomass in Food Production, 1991, CRC Press, p115-127 and 294-295, of record) in view of Tanekawa et al. (US Patent 4,303,680, issued 1 Dec 1981, of record) and further in view of Fernandez et al. (Acta Biotechnol., 1992, 12(1), p49-56, of record) has been fully considered and is persuasive, as claim 30 is canceled and amended claim 6 requires separating the RNA with the cell walls from the <50kDa soluble cell material, converting the RNA to ribonucleotides in the presence of the cell walls and absence of the smaller soluble cell material, then separating the cell walls from the ribonucleotides; Applicant's remarks are persuasive that Halasz et al. or Tanekawa et al. teach

separating the RNA from the cell walls and converting the RNA to ribonucleotides in the absence of both cell walls and the smaller soluble cell material or alternatively converting RNA to ribonucleotides in the presence of both the cell walls and the smaller soluble cell material and separating the ribonucleotides from both, and the teaching of Fernandez et al. does not remedy this.

This rejection has been **withdrawn**.

Applicant's Amendment, filed 17 Nov 2010, and Applicant's Supplemental Amendment, filed 3 Feb 2011, with respect to Amended Claims 14 and 15 rejected under 35 U.S.C. 103(a) as being unpatentable over Halasz et al. (Use of Yeast Biomass in Food Production, 1991, CRC Press, p115-127 and 294-295, of record) in view of Tanekawa et al. (US Patent 4,303,680, issued 1 Dec 1981, of record) and further in view of Tsuda et al. (US Patent 4,374,981, issued 22 Feb 1983, of record) has been fully considered and is persuasive, as amended claim 6 requires separating the RNA with the cell walls from the <50kDa soluble cell material, converting the RNA to ribonucleotides in the presence of the cell walls and absence of the smaller soluble cell material, then separating the cell walls from the ribonucleotides; Applicant's remarks are persuasive that Halasz et al. or Tanekawa et al. teach separating the RNA from the cell walls and converting the RNA to ribonucleotides in the absence of both cell walls and the smaller soluble cell material or alternatively converting RNA to ribonucleotides in the presence of both the cell walls and the smaller soluble cell material and separating the ribonucleotides from both, and the teaching of Fernandez et al. does not remedy this.

This rejection has been **withdrawn**.

Applicant's Amendment, filed 17 Nov 2010, and Applicant's Supplemental Amendment, filed 3 Feb 2011, with respect to Amended Claims 20-22 rejected under 35 U.S.C. 103(a) as being unpatentable over Halasz et al. (Use of Yeast Biomass in Food Production, 1991, CRC Press, p115-127 and 294-295, of record) in view of Tanekawa et al. (US Patent 4,303,680, issued 1 Dec 1981, of record) and further in view of Keller et al. (US Patent 4,623,723, issued 18 Nov 1986, of record) has been fully considered and is persuasive, as claim 20 is canceled and amended claim 6 requires separating the RNA with the cell walls from the <50kDa soluble cell material, converting the RNA to ribonucleotides in the presence of the cell walls and absence of the smaller soluble cell material, then separating the cell walls from the ribonucleotides; Applicant's remarks are persuasive that Halasz et al. or Tanekawa et al. teach separating the RNA from the cell walls and converting the RNA to ribonucleotides in the absence of both cell walls and the smaller soluble cell material or alternatively converting RNA to ribonucleotides in the presence of both the cell walls and the smaller soluble cell material and separating the ribonucleotides from both, and the teaching of Keller et al. does not remedy this.

This rejection has been **withdrawn**.

Applicant's Amendment, filed 17 Nov 2010, and Applicant's Supplemental Amendment, filed 3 Feb 2011, with respect to Amended Claim 23 rejected under 35 U.S.C. 103(a) as being unpatentable over Halasz et al. (Use of Yeast Biomass in Food

Production, 1991, CRC Press, p115-127 and 294-295, of record) in view of Tanekawa et al. (US Patent 4,303,680, issued 1 Dec 1981, of record) and further in view of Chae et al. (Bioresource Technology, 2001, 76, p253-258, of record) has been fully considered and is persuasive, as amended claim 6 requires separating the RNA with the cell walls from the <50kDa soluble cell material, converting the RNA to ribonucleotides in the presence of the cell walls and absence of the smaller soluble cell material, then separating the cell walls from the ribonucleotides; Applicant's remarks are persuasive that Halasz et al. or Tanekawa et al. teach separating the RNA from the cell walls and converting the RNA to ribonucleotides in the absence of both cell walls and the smaller soluble cell material or alternatively converting RNA to ribonucleotides in the presence of both the cell walls and the smaller soluble cell material and separating the ribonucleotides from both, and the teaching of Chae et al. does not remedy this.

This rejection has been **withdrawn**.

The closest prior art is Halasz et al. (Use of Yeast Biomass in Food Production, 1991, CRC Press, p115-127 and 294-295, of record) in view of Tanekawa et al. (US Patent 4,303,680, issued 1 Dec 1981, of record).

Halasz et al. in view of Tanekawa et al. teaches as detailed in the Office Action mailed 17 May 2010.

Halasz et al. in view of Tanekawa et al. does not specifically teach separating the RNA with the cell walls from the <50kDa soluble cell material, converting the RNA to

ribonucleotides in the presence of the cell walls and absence of the smaller soluble cell material, then separating the cell walls from the ribonucleotides (instant claim 6).

It would not have been obvious to combine Halasz et al. in view of Tanekawa et al. to give the instant invention as claimed. Applicant's remarks, filed 3 Feb 2011, are persuasive that Tanekawa et al. teaches the routine process known in the art comprises a) separating the RNA from the cell walls and converting the RNA to ribonucleotides in the absence of cell walls and presence of smaller soluble cell material or alternatively b) converting RNA to ribonucleotides in the presence of both the cell walls and the smaller soluble cell material and separating the ribonucleotides. The prior art, such as Fernandez et al. (Acta Biotechnol., 1992, 12(1), p49-56, of record), does not teach or fairly suggest a motivation to separate the RNA from the smaller soluble cell material without also separating RNA from the cell walls. In considering the totality of the prior art, proceeding contrary to accepted routine processes in the art is weighed as evidence of nonobviousness, see MPEP 2145, X.D.3.

Therefore the instant invention as claimed is not taught or fairly suggested by the prior art.

Conclusion

Claims 6, 7, 11-15 and 21-29 are allowed herein in view of Applicant's Supplemental Amendment and Remarks, filed 3 Feb 2011.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan S. Lau whose telephone number is 571-270-3531. The examiner can normally be reached on Monday - Thursday, 9 am - 4 pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Anna Jiang can be reached on 571-272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jonathan Lau
Patent Examiner
Art Unit 1623

/Shaojia Anna Jiang/
Supervisory Patent Examiner
Art Unit 1623

